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NEWS 40 May 19 Simultaneous left and right truncation added to WSCA  
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right truncation  
NEWS 42 Jun 02 Simultaneous left and right truncation added to CBNB

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FILE COVERS 1907 - 2 Jun 2003 VOL 138 ISS 23  
FILE LAST UPDATED: 1 Jun 2003 (20030601/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s hydrangea and macrophylla  
482 HYDRANGEA  
21 HYDRANGEAS  
488 HYDRANGEA  
          (HYDRANGEA OR HYDRANGEAS)  
883 MACROPHYLLA

=> s L1 and tannins  
19408 TANNINS  
L2 2 L1 AND TANNINS

=> D L2 1-2 ibib abs hitrn

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1994:279863 CAPLUS  
DOCUMENT NUMBER: 120:279863  
TITLE: Antiaging cosmetics containing plant extracts  
INVENTOR(S): Koikawa, Yoko; Suetsugu, Kazuhiro; Tanaka, Hiroshi;  
Shiba, Atsushi  
PATENT ASSIGNEE(S): Narisu Cosmetic Co Ltd, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06024937	A2	19940201	JP 1992-196230	19920629
JP 2001122765	A2	20010508	JP 2000-338294	19920629

PRIORITY APPLN. INFO.: JP 1992-196230 A3 19920629

AB Compns. contg. plant exts. and org. compds., such as L-cysteine, glutathione, mannitol, and gallic acid, are claimed for inhibition of mucopolysaccharide degrdn., for elimination of reactive oxygen species, and as antioxidants. For example, dried Gentiana scabra was extd. with an ethanolic soln. and formulated into a cream.

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1964:69953 CAPLUS  
DOCUMENT NUMBER: 60:69953  
ORIGINAL REFERENCE NO.: 60:12363b-c  
TITLE: Effect of seed treatment with extracts of organisms and the solutions of some chemical substances on the resistance to salt concentrations in wheat seedlings  
AUTHOR(S): Miyamoto, Takao  
CORPORATE SOURCE: Justus-Liebig-Univ., Giessen, Germany  
SOURCE: Physiologia Plantarum (1963), 16(2), 333-6  
CODEN: PHPLAI; ISSN: 0031-9317  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB cf. CA 57, 7661e. Seeds were soaked in the exptl. solns. then grown in soil to which various levels of NH4NO3 were added. Increased resistance of the seedlings to salt concns. was demonstrated with ext. of leaves of *Hydrangea macrophylla*, beef, bakers' yeast, 0.1% 2-chloroethanol, 0.2% LiBr, and 0.2% tannin.

=> s hydrangea and tannins  
482 HYDRANGEA  
21 HYDRANGEAS  
488 HYDRANGEA  
(HYDRANGEA OR HYDRANGEAS)  
19408 TANNINS

L3 10 HYDRANGEA AND TANNINS

=> d L3 1-10 ibib abs hitrn

L3 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:894791 CAPLUS  
DOCUMENT NUMBER: 137:389032  
TITLE: Deodorant compositions containing polyphenols  
INVENTOR(S): Sugimoto, Kenichi  
PATENT ASSIGNEE(S): Kanebo, Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002336338	A2	20021126	JP 2001-148783	20010518
PRIORITY APPLN. INFO.:			JP 2001-148783	20010518

AB Deodorant compns. (pH 3-6) contain (A) polyphenols selected from tannins, pyrogallol tannins, and catechol tannins and (B) org. acids and their salts as buffer substances. A lotion (pH 4.9) contg. LA-J (tea ext.) 0.1, tartaric acid 0.5, Na tartrate 2.0, EtOH 40, and H2O to 100 wt.% showed no skin irritation, removed tobacco odor from human hair, and did not damage the hair.

L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:703416 CAPLUS  
DOCUMENT NUMBER: 135:231528  
TITLE: Skin barrier-enhancing cosmetic compositions containing plant extracts  
INVENTOR(S): Kondo, Tomoko; Kato, Yuri; Yamaki, Kazuhiro  
PATENT ASSIGNEE(S): Kao Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001261543	A2	20010926	JP 2000-76006	20000317
PRIORITY APPLN. INFO.:			JP 2000-76006	20000317

AB This invention relates to skin barrier-enhancing compns. contg. plant-originated ceramide prodn. enhancers and plant-originated tannins. A cosmetic emulsion contained Eucalyptus globulus exts. (as ceramide prodn. enhancer) 0.05, Hamamelis virginiana exts. (as tannin source) 0.05, sorbitan monostearate 0.2, polyoxyethylene sorbitan monostearate 0.5, stearoylmethyltaurine sodium 0.7, cholesteryl isostearate 0.2, cholesterol 0.1, cetanol 0.3, stearyl alc. 0.2, squalane 3, glycerin 3, 1,3-butylene glycol 2, tocopherol 0.1, carboxyvinyl polymer 0.3, methylpolysiloxane 1.5, cyclosiloxane 1, KOH 0.1, paraben 0.2, and distd. water balance to 100 %.

L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1997:584309 CAPLUS  
DOCUMENT NUMBER: 127:181151  
TITLE: Compositions containing GOD-type ellagitannins as sugar-degrading enzyme inhibitors for therapeutic use  
INVENTOR(S): Nakahara, Koichi; Miyagawa, Katsuro; Nakai, Masaaki  
PATENT ASSIGNEE(S): Suntory, Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09176019	A2	19970708	JP 1995-350840	19951226
PRIORITY APPLN. INFO.:			JP 1995-350840	19951226

OTHER SOURCE(S): MARPAT 127:181151

AB Compns. contg. GOD-type ellagitannins extd. from e.g. Rosa henryi as sugar-degradating enzyme inhibitors are effective in controlling e.g. diabetes and obesity. Tablets were formulated contg. GOD-type ellagitannins 150, lactose 150, and magnesium stearate 5g. GOD-type ellagitannins also can be incorporated into foods.

L3 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:371765 CAPLUS

DOCUMENT NUMBER: 125:141068

TITLE: Inhibitory effects of plant constituents on the mutagenicity of C-nitro and C-nitroso compounds formed by reaction of sorbic acid with sodium nitrite

AUTHOR(S): Achiwa, Yumiko; Hibasami, Hiroshige; Katsuzaki, Hirotaka; Kada, Tsuneo; Komiya, Takashi

CORPORATE SOURCE: Tsurumi Shuzo Co., Ltd., Tsushima, 496, Japan

SOURCE: Nippon Shokuhin Kagaku Kogaku Kaishi (1996), 43(5), 493-501

PUBLISHER: Nippon Shokuhin Kagaku Kogakkai

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB Inhibitory effects of many species of vegetable and plant exts. (45 species of vegetables, 15 species of fruits, 2 species of nuts, 20 species of grasses, and 21 species of trees) on the mutagenicity of C-nitro and C-nitroso compds. formed by reaction of sorbic acid with sodium nitrite were investigated by using of Rec-assay method. Ext. of persimmon (*Diospyros*), knotweed (*Polygonum longisetum*), and Japanese-aucuba (*Aucuba Japonica*) remarkably inhibited the mutagenicity. The Fraction III sepd. from persimmon ext. by ultracentrifugation inhibited the mutagenicity, and moreover its inhibitory effect on the mutagenicity still remained after treatment with some proteases. This fact suggests that the inhibitory factor in the persimmon ext. against the mutagenicity may be constituents other than proteins. The inhibitory effect of persimmon ext. on formation of nitrosomorpholine in the reaction of morpholine with sodium nitrite was investigated using HPLC. Addn. of an excess of sodium nitrite increased the content of nitrosomorpholine formed in the reaction mixt. of morpholine with sodium nitrite contg. persimmon ext. However, the content did not change by addn. of an excess of morpholine. From these results, the inhibitory substance was considered to be kakitannin which can scavenge sodium nitrite.

L3 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1994:279863 CAPLUS

DOCUMENT NUMBER: 120:279863

TITLE: Antiaging cosmetics containing plant extracts

INVENTOR(S): Koikawa, Yoko; Suetsugu, Kazuhiro; Tanaka, Hiroshi; Shiba, Atsushi

PATENT ASSIGNEE(S): Narisu Cosmetic Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06024937	A2	19940201	JP 1992-196230	19920629
JP 2001122765	A2	20010508	JP 2000-338294	19920629

PRIORITY APPLN. INFO.: JP 1992-196230 A3 19920629

AB Compns. contg. plant exts. and org. compds., such as L-cysteine, glutathione, mannitol, and gallic acid, are claimed for inhibition of mucopolysaccharide degrdn., for elimination of reactive oxygen species, and

as antioxidants. For example, dried *Gentiana scabra* was extd. with an ethanolic soln. and formulated into a cream.

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1979:609629 CAPLUS  
DOCUMENT NUMBER: 91:209629  
TITLE: Studies on the development of **hydrangea** and stevia as a natural sweetening products  
AUTHOR(S): Chung, Myung Hyun; Lee, Myung Yul  
CORPORATE SOURCE: Coll. Pharm., Chosun Univ., Gwangju, S. Korea  
SOURCE: Saengyak Hakhoechi (1978), 9(3), 149-56  
CODEN: SYHJAM; ISSN: 0253-3073  
DOCUMENT TYPE: Journal  
LANGUAGE: Korean  
AB Stevioside [57817-89-7] could be economically manufd. from Stevia leaves grown in Korea, but the amt. of phyllodulcin [21499-23-0] in the *Hydrangla* plants was too low to be of com. interest. Stevia Leaf contained 8.7% ash and 7.8% **tannins**; *Hydrangla* contained 9.5% tannin, but fermn. decreased it to 6.1%. Conditions for cultivating these plants in Korea were detd.

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1978:117799 CAPLUS  
DOCUMENT NUMBER: 88:117799  
TITLE: Astringency of leaves. Part 2. Astringent **tannins** of *Viburnum* and **Hydrangea** species  
AUTHOR(S): Bate-Smith, E. C.  
CORPORATE SOURCE: Inst. Anim. Physiol., ARC, Babraham/Cambridge, UK  
SOURCE: Phytochemistry (Elsevier) (1978), 17(2), 267-70  
CODEN: PYTCAS; ISSN: 0031-9422  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The **tannins** of the leaves of *Viburnum* and **Hydrangea** species consisted of proanthocyanidins only, but in each genus the range was very wide. In several species of **Hydrangea** the proanthocyanidins were of the A type (containing procyanidin type A), otherwise they were mostly tri- or tetrameric B type. Tannin content was correlated with evolutionary advancement, the more advanced and more widely dispersed species having the less. Species with most tannin occurred in E. Asia and E. N. America, but species with little or no tannin were present in both areas. The occurrence in both genera of globose inflorescences with sterile flowers is correlated neither with morphol. nor with chem. characters.

L3 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1977:500884 CAPLUS  
DOCUMENT NUMBER: 87:100884  
TITLE: Sweetner extraction from **Hydrangea serrata**  
INVENTOR(S): Masuyama, Fumio  
PATENT ASSIGNEE(S): Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 2 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52064462	A2	19770527	JP 1975-141704	19751121

PRIORITY APPLN. INFO.: JP 1975-141704 19751121

AB Washed buds and young leaves of *H. serrata* were pressed to yield green juice; after removal of **tannins** by solvent extn., the green

juice was concd. to obtain a natural sweetener.

L3 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1964:69953 CAPLUS  
DOCUMENT NUMBER: 60:69953  
ORIGINAL REFERENCE NO.: 60:12363b-c  
TITLE: Effect of seed treatment with extracts of organisms and the solutions of some chemical substances on the resistance to salt concentrations in wheat seedlings  
AUTHOR(S): Miyamoto, Takao  
CORPORATE SOURCE: Justus-Liebig-Univ., Giessen, Germany  
SOURCE: Physiologia Plantarum (1963), 16(2), 333-6  
CODEN: PHPLAI; ISSN: 0031-9317  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB cf. CA 57, 7661e. Seeds were soaked in the exptl. solns. then grown in soil to which various levels of NH<sub>4</sub>NO<sub>3</sub> were added. Increased resistance of the seedlings to salt concns. was demonstrated with ext. of leaves of *Hydrangea macrophylla*, beef, bakers' yeast, 0.1% 2-chloroethanol, 0.2% LiBr, and 0.2% tannin.

L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1938:60282 CAPLUS  
DOCUMENT NUMBER: 32:60282  
ORIGINAL REFERENCE NO.: 32:8476b-f  
TITLE: The nature and inheritance of flower color  
AUTHOR(S): Scott-Moncrieff, Rose; O. Meares, Rose  
SOURCE: Sci. Hort. (1938), 6, 124-32  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable  
AB cf. C. A. 32, 6676.6. Two types of sap-sol. pigments consist of the anthocyanins, varying individually in color from salmon and scarlet through red and purple to blue, and the anthoxanthins (flavones and flavonols) which are of various shades between pale ivory and deep yellow. The insol. plastid pigments are yellow and orange. Other things being equal, an increase in the no. of O atoms in the mol. results in a more blue-toned pigment. Variations in the nature of the sugar group attached to the pigment mol. may affect color considerably. Substances such as flavones and tannins which accompany anthocyanins tend to increase blueness and account for such differences in color as that between magenta and red primroses, etc. A change in sap pH causes one of the most extreme color variations. With the exception of the *hydrangea*, nearly all variations in flower color are strictly inherent in the plant itself. The more oxidized pigment types are always more intense and bluer-toned and are inherited as dominants to the less oxidized types except with bright scarlet pigmentation. Wild types are copigmented and are dominant to the less blue-toned noncopigmented forms. Mutation to a less acid pH is one of the chief factors responsible for many of the recessive mauve, purple and blue varieties. In a pure species the no. of methods for control of color variations is generally fewer and less varied than in hybrids. A knowledge of the nature of flower color, the usual rules of inheritance and of competitive production of the various pigments are an aid to the choice of varieties for crosses.

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